Dissolved Gas Analyzer LX100DGA

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Description

Dissolved Gas Analyzer LX100DGA is designed with an advanced three-detector system, enabling complete analysis of the total dissolved gas content in insulating oil using a single sample injection. It accurately detects key gases including hydrogen, methane, ethylene, ethane, acetylene, carbon monoxide, and carbon dioxide, supporting effective condition monitoring of insulating oils.

Specifications

Detector	FID, TCD
Minimum detection concentration (μl/L)	<table><tr><th>H_2</th><th>CO</th><th>CO_2</th><th>CH_4</th><th>C_2H_4</th><th>C_2H_6</th><th>C</th></tr><tr><td>2</td><td>1</td><td>5</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0</td></tr></table>
Sampler	Packed column sampling, Capillary sampling, Six-port valve gas sampling
Display	8 Inch color LCD touch screen
Temperature Control Range	Above room temperature, 4°C - 450°C
Temperature Increment	1°C
Temperature Accuracy	± 0.1°C
Temperature Control Area	8 Channels
Programmed Temperature Rising Rate	0.1 - 60°C/Min
Sampling Start	Manual
FID Detection Limit	≤ 5 x 10^{-12} g/s (Cetane/Iso octane)
FID Baseline noise	≤ 0.07 PA
FID Baseline drift	≤ 0.2 PA/30 Min
FID Linear range	≥ 10^6
TCD Sensitivity	S ≥ 10000 mV x ml/mg (Benzene/Toluene)
TCD baseline noise	≤ 20 μV
TCD baseline drift	≤ 30 μV/30 Min
TCD linear range	≥ 10^4

Interface	Ethernet, IEEE802.3
Power supply	220 V, 50 Hz
External dimension	690 x 610 x 490 mm
Net weight	55 Kg
Packing dimension	790 x 690 x 740 mm 720 x 600 x 540 mm 570 x 440 x 460 mm
Gross weight	170 Kg

Features

- Maximum 3 detectors FID 2, TCD 1
- Injection volume 1 mL; minimum detection concentration specified per gas
- Equipped with 8-inch color LCD touch screen
- Integrated 8 temperature control channels
- Manual or automatic sampling start
- Supports 8 external channels with 2 auxiliary control outputs
- Features an Ethernet port (IEEE 802.3) for connectivity

Applications

- Used for analyzing the total content of dissolved gas components in Petroleum and oil Industries.

Standard Accessories

- Air generator x 1 Pc
- Hydrogen generator x 1 Pc
- Oscillator x 1 Pc

Optional Accessories

- Auto-sampler

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